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DE WEERDT -- 10/681,335

Client/Matter: 081468-0306313

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of

claims in the application:

1. (Original) A lithographic apparatus comprising:

an illumination system configured to provide a projection beam of radiation;

a support structure configured to hold a patterning device, the patterning

device configured to impart the projection beam with a pattern in its cross-section;

a substrate table configured to hold a substrate;

a projection system configured to project the patterned beam onto a target

portion of the substrate; and

a positioning device configured to position an object table comprising:

a first part comprising a magnetic field distribution that periodically alternates

in a first direction and in a second direction perpendicular to the first direction,

wherein the magnetic field distribution is anisotropic with respect to said first and

second directions, and

a second part comprising a first set of coils arranged relative to the first part to

generate a force in at least the first direction and a second set of coils arranged

relative to the first part to generate a force in at least the second direction.

2. (Original) A lithographic apparatus according to claim 1, wherein the magnetic

field distribution is generated by permanent magnets.

3. (Original) A lithographic apparatus according to claim 2, wherein said permanent

magnets have substantially the same shape.

4. (Original) A lithographic apparatus according to claim 1, wherein said magnetic

field distribution is generated by an alternating arrangement of octagonal shaped

magnets and square shaped magnets in said first and second directions wherein the

magnets along said first direction have the same polarity while the magnets along

said second direction have an alternating polarity.

-2-

DE WEERDT -- 10/681,335 Client/Matter: 081468-0306313

5. (Currently Amended) A lithographic apparatus according to claim 1, wherein said

magnetic field distribution is generated by an arrangement of rectangular shaped

magnets in said first and second directions, wherein the magnets along said first

direction have a same first polarity and the magnets along said second

direction directions have athe same second polarity, the first polarity being the same

as or different than the second polarity.

6. (Original) A lithographic apparatus according to claim 1, wherein said magnetic

field distribution is generated by an alternating arrangement of magnets of a first type

and of a second type in said first and second directions, wherein the magnets along

said first direction have alternating polarity, the magnets along said second direction

have the same polarity, and the magnets of the first type are a different size than the

magnets of the second type.

7. (Original) A lithographic apparatus according to claim 1, wherein said magnetic

field distribution is generated by an arrangement of hexagonal shaped magnets in

said first and second directions.

8. (Original) A lithographic apparatus according to claim 7, wherein the magnetic

pitch of the magnets is the same for both first and second directions.

9. (Currently Amended) A lithographic apparatus according to claim 1, wherein the

magnetic field distribution is generated by a two-dimensional Halbach array of

magnets, extending in the first and second directions, having gaps between the

magnets, wherein the gaps between magnets of the Halbach array comprise square

shaped magnets, the square shaped magnets along said first direction have a same

first polarity and the magnets along said second direction have athe same

second polarity, the first polarity being the same as or different than the second

polarity.

10. (Original) A lithographic apparatus according to claim 1, wherein the magnetic

field distribution is generated by at least one current carrying conductor.

4

DE WEERDT -- 10/681,335

Client/Matter: 081468-0306313

11. (Currently Amended) A lithographic projection apparatus according to claim 10. wherein said at least one current carrying conductor is at least partly embedded in a

ferromagnetic plate.

12. (Original) A lithographic apparatus according to claim 10, wherein said at least

one current carrying conductor is a superconductor.

13. (Currently Amended) A device manufacturing method comprising:

positioning an object table using a positioning device, the positioning device

comprising:

a first part comprising a magnetic field distribution that periodically alternates

in a first direction and in a second direction perpendicular to the first direction,

wherein the magnetic field distribution is anisotropic with respect to said first and

second directions, and

a second part comprising a first set of coils arranged relative to the first part to

generate a force in at least the first direction and a second set of coils arranged

relative to the first part to generate a force in at least the second direction; and

projecting a patterned beam of radiation onto a target portion of a substrate.

14. (New) The method according to claim 13, wherein said magnetic field distribution

is generated by an alternating arrangement of octagonal shaped magnets and

square shaped magnets in said first and second directions wherein the magnets

along said first direction have the same polarity while the magnets along said second

direction have an alternating polarity.

15. (New) The method according to claim 13, wherein said magnetic field distribution

is generated by an arrangement of rectangular shaped magnets in said first and

second directions, wherein the magnets along said first direction have a same first

polarity and the magnets along said second direction have a same second polarity,

the first polarity being the same as or different than the second polarity.

16. (New) The method according to claim 13, wherein said magnetic field distribution

is generated by an alternating arrangement of magnets of a first type and of a

-4-

DE WEERDT -- 10/681,335

Client/Matter: 081468-0306313

second type in said first and second directions, wherein the magnets along said first direction have alternating polarity, the magnets along said second direction have the same polarity, and the magnets of the first type are a different size than the magnets

of the second type.

17. (New) The method according to claim 13, wherein said magnetic field distribution

is generated by an arrangement of hexagonal shaped magnets in said first and

second directions.

18. (New) The method according to claim 13, wherein the magnetic field distribution

is generated by a two-dimensional Halbach array of magnets, extending in the first

and second directions, having gaps between the magnets, wherein the gaps

between magnets of the Halbach array comprise square shaped magnets, the

square shaped magnets along said first direction have a same first polarity and the

magnets along said second direction have a same second polarity, the first polarity

being the same as or different than the second polarity.

19. (New) The method according to claim 13, wherein the magnetic field distribution

is generated by at least one current carrying conductor.

20. (New) The method according to claim 19, wherein said at least one current

carrying conductor is at least partly embedded in a ferromagnetic plate.

- 5 -